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FIG. 1

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GTCTTTATTCATATAACTATGCTCTGATCTTGTACTTTCTCCTTTAAC
TCAGTTAAGCTTATTCTTATTTCCAGCTGCTGAAGGTATATAGTTAGG
TTGTTTATTGGATACCATTCTTCCCGTTAATGTCAGTGGTTACTGCTATC
AATGTAGCAGTTA

FIG. 2

ATAAGGTATATTATTTGTGTCGTGAGTTAAGAAATCATTAAATAACTATTTT
CAGAATGACAAATGTCATTATATGTTGAAAAAGATAAAATACGTGAAATI
ATGAGGTTAAGAAAAGTTA

FIG. 3

ACATAAAATGTCGCTAAAAACAATTATGTGTGCTACACATATGGGAAA
GCAGGAAACAAATTGTTACAACATACATTACTTTGTTTTAGGCAAG
ATAAAATNTCCTACCTCCAAAACCACCAAGCACNGTCCGCAATAACTATAC
ATC

FIG. 4

AATATCATTCTCACCCACGTTATACATAAGAGACCAGAACATGTGATATTGT
CATCTCACATGGAAAATCTGCTGTGATCAGTTCTGAAGCTTGCTGTGA
TCCTCCCTTAGGAAAGTAGAAAAATCTTTTGAAACACTTTATTCTACAAT
CAATGAAAATTAGGTGAAGCTACAGAACCCAGAACATTACTCTAACAGATTAG
ACAATTATTAAGANGACCAATTGTCTTGGTCTTCTGAAGGGTCTG
ACTACCCCTCCTCCAAAGAACATTCACTGGCCGTGTTTACAACGTCNTGA

FIG. 5

GGAGGGTGTNTCACANAAGTCTGGGGTGCCTGTGTTGTTCATTGTAAC
AAACCCCTTGGANCATCTGGGAATGTGCTGCCACATGTCCAGGTAAC
GTTCTCAGGAAGGGGAGGCTGGAAATCTCTGTGTTCTTACAGGAATG
CATGAAATCTCCCACCCCTCTGTTGAAATTCCCTCACTTT

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FIG. 6.

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CTTCTCNATGANTGGACAAATGTCATTGGGTCAGGCATGAGGCACAGCTT
ACCAGTTCAGATTCAGTAGCTGAGGAACAAATCTTAACCTCAAAAATAA
GTAATTGCGTCACTTGGAGGAATTTTTGACCTTTCATAACTTTGACAT
CACAACAATGAGGGTGAAGTAGTAAAAAATGATTTATTGAGGATAA
AATGAGAAATGAATNAGTGCTTAAGACAATGCTTGGTAACTAGTTAAN
CCG

FIG. 7.

GGTNTTTCACTGGTGGTAACACTACTCTAAGTTTTATTGTTTTA
TGCTATTGCTAATGGGATTGCTTTCTTAATTATTTTCCAATAGCTGT
TGTTAGTTATATCAAATGCAACTGTTTCTATGCAAATTATGTTCT

FIG. 8.

TTGGTGGTGCCTAGGTTGGCAATTATAAATAAGCTGCTACAAACATT
CATGTGCAGGTCTCCGTGTGGACATAATTTCAGTCATTGGTAAA
CCCAAGGGAGCACAACTGTTGGATCCTATNATAAAATATNTCTCGTTTC
ATTTAAAAAAACCTGGGAAACTATCTNCCCACAGTGGCTGTCCCTTTTGT
ATCCCCACCAACAATGTTGGAAAGCCTATTGCCANCAT

FIG. 9.

CATGNCTCACAGTGGCTGAGGCTGCTCTGGACATGCAATCTTGCATGC
TTTGTCATGACAGGTCTAAANAGTTATCAGCTNCTCAAATAGCTGAA
TGACANAAACACTGGATTGGTCAAATANCCTATCAACTTGGCNTCTGT
GTTGCGGGTTGTCACTTGGTAACAAAATAAGTC

FIG. 10.

TAATTGACAAATAAAATTGTATATTTCATATTAAACATGTTATGCTAAC
ATATATATGGATTGTGGAATGGCTAAGTCAGAAATTCTTTACATTCAAT
TTCCATATTATTACTTTNGCTTAAAAAATATGTAAATGANAATACTTAT
TTTTTCAGTGTCACTGCCTTGATACTTACATTNNNGTTACATATTATT
CCCTTCATCTAACAAATATATTGAGTTCTATAATGTGTCTGACACTG
A

FIG. 11.

TGGTCACTGGTGCCTTATTTGGTTGTTGCTGAGGTCATATTTCTGTG
GCCTTCATGCTTGATTTGTTGGAGTCTAGCCATGTAAAANTCTGTTGGAG
TCTAGGCATTTAAAAAATAGGTATTTATTGTAATCTTGCCATTTGCTTGT
TTGTATCCATCCTTCTGGGAAGGCTTACAGGCATTCAAAGG

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healthy male/female

proband included in analysis

WAD 31

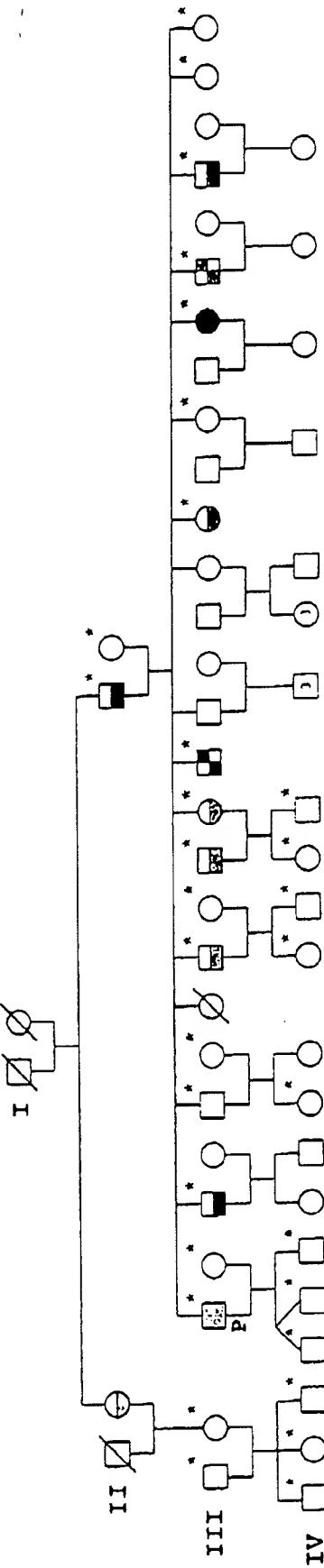


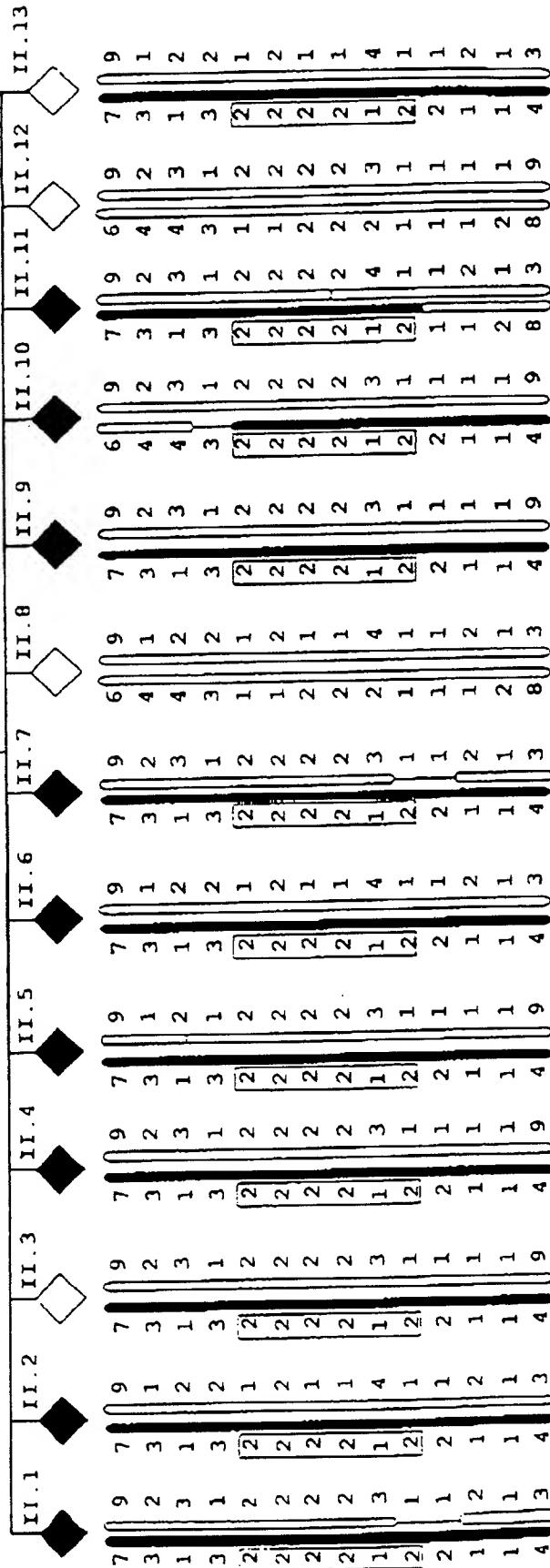
FIG. 12.

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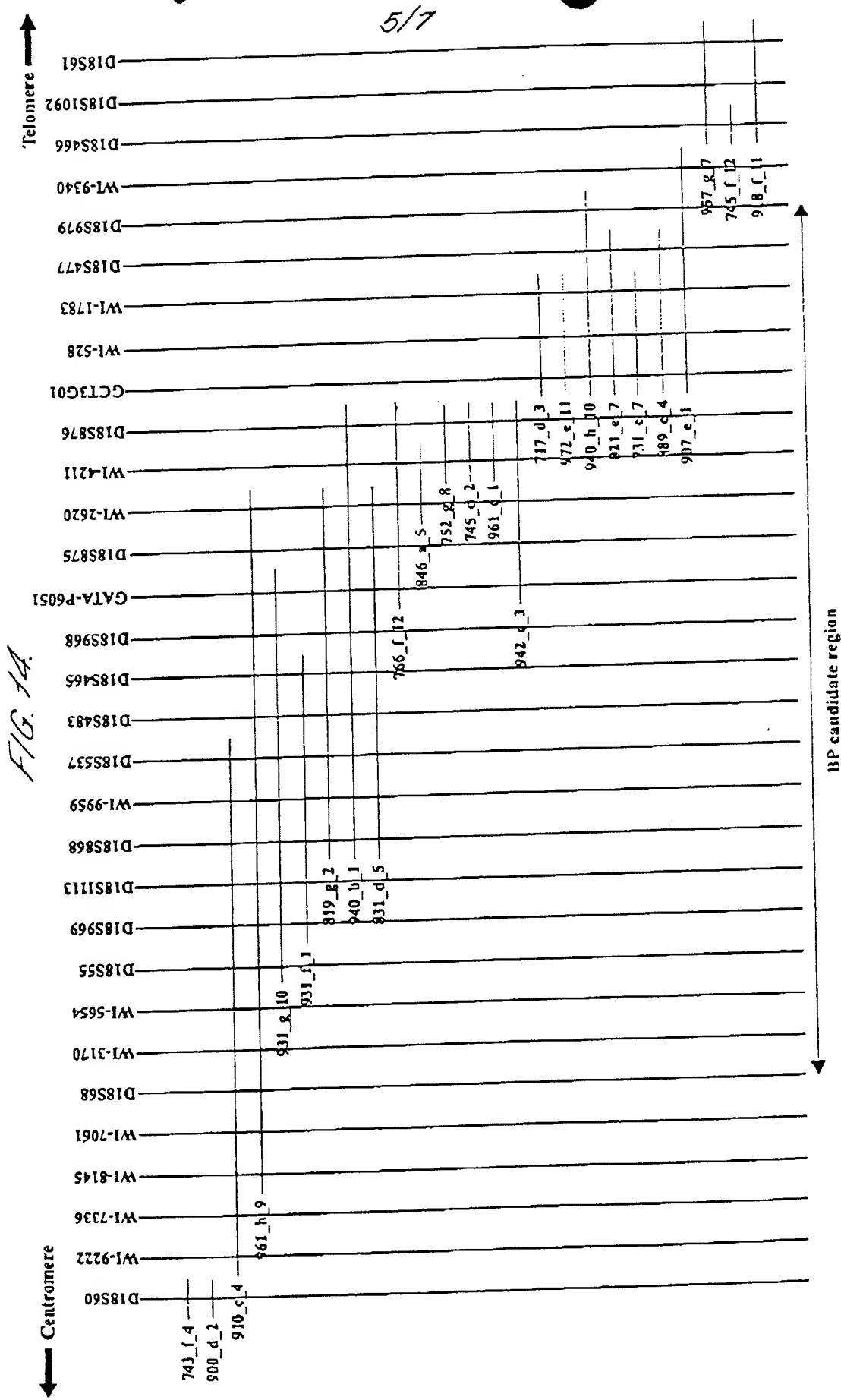
417

D18S51 7 6 9
 D18S68 3 4 2 1
 D18S346 1 4 3 2
 D18S55 3 3 1 2
 D18S969 2 1 2 1
 D18S1113 2 2 2 1
 D18S483 2 2 2 1
 D18S465 2 2 2 1
 D18S876 1 2 3 4
 D18S477 1 2 1 1
 D18S979 2 1 1 1
 D18S466 1 1 1 2
 D18S817 1 2 1 1
 D18S61 4 8 9 3

FIG. 13.



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FIG. 15a.

GCCAACAAACAAAATGAAATAAGACCTGGGATGTATTGGCCAAGGCAATTAGAAA
 ATGATTAGTATCCTTATCAGGAGCAATTTCAGAGAATGTTGGGTGGACGTCTAACTACA
 GTGGAGTCAAACGTGAATCAACGGTAAAAAAGGACAATAGCCAATGTGTACACTTTT
 ATAAAAACCACCCCTCCAAGGACCAGGCAGTGGCCCTCTCTCGGTGCCACAGACATC
 CACACAGGCCAAAGAATCAGGGATTGCACAAGCCAGAGCAATCGAACGGTTCTGAGT
 CATCTGCCGAAGCCTTGCCCTCAATCAAGGCCGACGTGAAGCATTACAAAGGAGGA
 ATAGTCAAAGCAGCAGCGGCCGGCGGCCGGCAGCAGCAGCAGCAGCAGCAGG
 AGGTGGGGGCCTCTGCCAGGTACCGGGCGGGCAGGCACGGAGGTGCCAGGTT
 CCCGCCGAGGCCACCTCTTCCCTGGAGTGCCTGAGAGAGAGGGGAAGGGAGGAAGG
 CCAGAGCAGGAATCAGAGCAGGCCAAAGGCCAGGAACATXGAGAATGAC
 GCAGGCCAGGCCGGAAAGAAAATCTCGGGCTGTGGGGCTXCCCTGGCACC
 AGCCGGGGTCCCAAGCCCCACCGCGAGACCCCGCGA

FIG. 15b.

5'-ATCGAACGGTTCTGAGTCATCT
 5'-CGCTCTGATTCCCTGCTCTG

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FIG. 16a.

TTCAGTAGAAGGAAGCACAGCAAATTGCCCTTATAGAGATTCAATTCTGGTGCTTGG
 GCCAAAGAATAAGAATTACATTAAGCAGGCCGGCACGGTGGCTCACACCTGTAAAAC
 CAGAACTTTGGGAGGCCGAGGCAGGAGATCATGAGGTAGGAGATCGAGACCATCC
 TGGACAACATAGTGAACACCCATCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTG
 GTGCATGCCGTGAATCCAGCTACTCAGGAGGCCGGCAGGAGAATCCCTGAACCA
 GGGAGTTGGAGGTGCAGTGAGCCGAGATCACGCCACAGCACTCTAGCCTGGCGACA
 GAGTGAGACTCCATCTAAAAAAAAAAAAAAAAAAATTACATTAAGCAGCAGC
 AGCAGCAGTGASAGAGGAAKAATGAAAGAAGAAATTCTAGAATAAGATTGA
 TCTCCAGCACCATGCCAATCATGGACTGGATACAATTATGCATATCTTTGTGA
 GAGAGGTGAGAGATGTGAATCCTTCTCATT

FIG. 16b.

5'-AGAAGGAAGCACAGCAAATTG
 5'-GCATGGTGCTGGAGAGATCAAT

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FIG. 17a.

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TGGGAGTTAAGCAGACATTGGCTTNGTGTGCCAGAGTTCTAACATAAGTTCTTT
 CATCTGGGCAGGCNGATGTTCTTCCATCTTNGAAGNACNGTCCTTTCATTTTTTTAT
 TTNGCTTTGGSKTTATCTTCTTAGACGTCTCAGGAGTTKGATTGAGKTAAGGCAG
 ATTAGTTGACTGGGCTTGTGAAATTTAAAGGGCAAGTCTGGCTGCAT
 ATTCTTACTCTGGGGCTTAGTACTGGCCCCTAAATTGTTCTGGCTCCTCAAGGTT
 AGAAATCTGCTGGCTGGAGGGCTGAGATGTTCTTGACTGCTGGCAGAACATSCCG
 CCCGGGGGGCAACCGAAGTGTCTTGGCAATGGCAGCAGAATTGATGATTGTT
 TTCATGTRCCAGCAGCAGTGGCAGCGCAKTGAGTTGCATGATTGGCTGGGC
 TGAGTGCTGGCASGCACGGAGTGTGCTTCCAGTAGAAATTACAGCAGTAG
 TAGTGGTGGCATGGGAAGGAGGGCAGYGGTGGCATGGGAGGACCCCCC

FIG. 17b.

5'-GGCTGAGATGTTCTTGACTGC
 5'-CCTTCCCATGCCACCACTACTA

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FIG. 18a.

TGTAATTCCCAGCAATTGGGAGCCAAAGCGGGCAGATTGAGTTGGGAAGAT
 TCGAGACCNTTCTGGCTAAACACGGGGAAACCCNTTTTACTAAAAAATACCAAAA
 AATTAACCTGGCGTGGTGGCGGGCCCCAGCTANTCCGGAGGCTGAGGCAGGAGAAT
 GGTGTGAACCCGGGAGGCAGCTTGCACTGAGCCGAGATCCCCCTACTGCACTCCA
 GCCTGGCAATAGAGGGAGACTCCGTCTCAAAAAAAAAAAATAATAATAATAAAA
 AAAATAACAATAATAACTAATAATTGCTTGATAATTACAAAGCAAAAGGAAAGAAG
 ACTAGGCAAGAAAAAAACCTCCTTAGATGGTAGAACTCAGGTTAAATTAAACTT
 ATTCTGGTGTAGSCTAGTTGATATTGACCTCTTAAATGCTCTGAACATGATATGG
 AGTAACAGCGATGCTGCTGCTGCTGCTGCTGATGGTGGTGGTGTGTTTA
 ATATCGAATAAAAGTTGTGAAACTAAATTCTGCCATTAACTAAGATT
 GCAAAGTTAACATCT

FIG. 18b.

5'-TTTGCAATCTTAGTTAATTGGC
 5'-GAACTATGATATGGAGTAACAGCG